QC-ABSTRACT

Name of Work:- Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests as per Frequency	Tests Results
1	PCC 1:3:6	23.63 Cum	1	1	Pass
2	M20	21.17 Cum	3	3	Pass

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for every 50 Cum

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 05.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** T Dasarahalli Sub division, BBMP Bangalore
AGENCY	:	**Sri Mahesh B Shetty.,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	Dec- 2021
DATE OF TESTING		03.01.2022 to 05.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	325 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Date : 05.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore

Agency : Sri Mahesh B Shetty., Contractor, Bangalore.

Name of Work :Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Date of Testing : 05.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	149	14.90	23.30	76.7	75-100
1.18	182	18.20	41.50	58.5	55-90
600 Micron	166	16.60	58.10	41.9	35-59
300 Micron	215	21.50	79.60	20.4	8-30
150 Micron	132	13.20	92.80	7.2	0-10

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TEST REPORT ON FINE AGGREGATES (SAND)

IS 2116-1980

Client : **Assistant Executive Engineer,** T Dasarahalli Sub division, BBMP Bangalore

Agency : **Sri Mahesh B Shetty., Contractor, Bangalore.**

Name of Work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Date of Testing : 05.01.2022

Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	34	3.40	5.50	94.5	70-100
600 Micron	87	8.70	14.20	85.8	40-100
300 Micron	265	26.50	40.70	59.3	5-70
150 Micron	478	47.80	88.50	11.5	0-15

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Date : 05.01.2022

TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore**
Agency	**: Sri Mahesh B Shetty., Contractor, Bangalore.**
Name of Work	:Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division
Date of Testing	: 05.01.2022
IS Code	: IS 383:2016
	: IS 2386 (Part 1):1963(RA 2011)
Material	: 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Date : 05.01.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore

Agency : Sri Mahesh B Shetty., Contractor, Bangalore.

Name of Work :Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Date of Testing : 05.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8236	54.91	56.13	43.87	30-70
10	3256	21.71	77.84	22.16	10-35
4.75	2810	18.73	96.57	3.43	0-5

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 17.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore
Agency	: Sri Mahesh B Shetty., Contractor, Bangalore.
Name of the work	: Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2022	17.01.2022	8.138	324.6	14.43
2	10.01.2022	17.01.2022	8.149	346.5	15.40
3	10.01.2022	17.01.2022	8.165	359.2	15.96

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 07.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore

Agency : Sri Mahesh B Shetty., Contractor, Bangalore.

Name of the work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2022	07.02.2022	8.196	508.2	22.59
2	10.01.2022	07.02.2022	8.165	516.3	22.95
3	10.01.2022	07.02.2022	8.148	489.2	21.74

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 17.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore

Agency : Sri Mahesh B Shetty., Contractor, Bangalore.

Name of the work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2022	17.01.2022	8.166	356.3	15.84
2	10.01.2022	17.01.2022	8.154	339.6	15.09
3	10.01.2022	17.01.2022	8.148	326.4	14.51

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 07.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore

Agency : Sri Mahesh B Shetty., Contractor, Bangalore.

Name of the work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2022	07.02.2022	8.184	502.2	22.32
2	10.01.2022	07.02.2022	8.165	519.6	23.09
3	10.01.2022	07.02.2022	8.149	475.2	21.12

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 24.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore**

Agency : **Sri Mahesh B Shetty., Contractor, Bangalore.**

Name of the work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	24.01.2022	8.169	336.3	14.95
2	17.01.2022	24.01.2022	8.172	346.5	15.40
3	17.01.2022	24.01.2022	8.154	352.8	15.68

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Job No.: CACE/BBMP/MBS/W.No.14/2021-22 Date: 14.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, T Dasarahalli Sub division, BBMP Bangalore**

Agency : **Sri Mahesh B Shetty., Contractor, Bangalore.**

Name of the work : Providing Rain Water Harvesting Facilities in Ward No 14 Bagalagunte, Bagalagunte Sub Division

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2022	14.02.2022	8.165	502.6	22.34
2	17.01.2022	14.02.2022	8.128	516.8	22.97
3	17.01.2022	14.02.2022	8.149	492.7	21.90

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